THE BRYOLOGIST

Quarterly Journal of the American Bryological and Lichenological Society

Editor
WILLIAM D. REESE

Volume 94
1991

Table of Contents

AL-HASAN, R. H., H. H. KA'WASH, & S. S. RADWAN. Enrichment of Mosses with Lipids and Polyunsaturated Fatty Acids by Nitrogen Starvation 196
ALLEN, B. A New Species of *Fontinalis* (Musci: Fontinalacea) in North America 201
ALLEN, B. A Review of the *Fontinalis sullivantii* Complex (Musci: Fontinalaceae) 430
ALLEN, B. Review 127
ALLEN, B. & R. E. MAGILL. Recent Literature on Mosses—148, 150 ..... 237, 464
ALLEN, B. & R. A. PURSELL. A Reconsideration of the Systematic Position of *Jonesiobryum* 438
APTROOT, A. *Monoblastia pellucida*: A Remarkable New Lichen Species from Tropical Coastal Areas, with Comments on the Monoblastiaceae 404
BOWERS, F. D. & A. E. RUSHING. *Bruchia halii* in Alabama 55
BRAKO, L. Review 476
BUCK, W. R. Reviews 132, 345
BUCK, W. R. The Generic Placement of *Anomodon lagoensis* 82
CHURCHILL, S. P. Bryologia Novo Granatensis. V. Additional Records for Colombia and Antioquia, with a Review of the Distribution of *Hydropogon fontinaloides* in South America 44
CHURCHILL, S. P. The Floristic Composition and Elevational Distribution of Colombian Mosses .. 157
COOPER, D. J. The Habitats of Three Boreal Fen Mosses New to the Southern Rocky Mountains of Colorado 49
CRANDALL-STOTLER, B. Review 130
CRUM, H. Review 126
CRUM, H. Two New Species of *Sphagnum* from Brazil 301
CULBERSON, W. L. A Tribute to Mason Ellsworth Hale, Jr. 90
DELGADILLO M., C. & A. CÁRDENAS S. Notes on Ephemeral Mosses from Mexico, Including *Bruchia paricutinensis* sp. nov. 294
DE LUNA, E. & W. R. BUCK. An Undescribed Species of *Braunia* (Hedwigiaceae) from the Andean Cloud Forest 401
ECKEL, P. M. *Tortella tortelloides* (Musci: Pottiaceae) New to North America 84
ECKEL, P. M. & J. SHAW. *Bryum rubens* from Niagara Falls, New to New York State 80
EGAN, R. S. Changes to the "Fifth Checklist of the Lichen-forming, Lichenicolous and Allied Fungi of the Continental United States and Canada." Edition III 396
EGAN, R. S. Recent Literature on Lichens—141, 142, 143 ..... 108, 230, 326
ELIX, J. A., H.-M. CHAPPELL, & H. JIANG. Four New Lichen Xanthones 304
ENGEL, J. J. Studies on Geocalycaceae (Hepaticae). III. On the Typification of *Jungermannia multipenna* Hook. f. & Tayl. 22
ENGEL, J. J. Studies on Geocalycaceae (Hepaticae). V. Comments on the *Leucophyllae* Complex of *Chiloscyphus* 311
ENGEL, J. J. Studies on Geocalycaceae (Hepaticae). VI. Comments on *Leptoscyphus* in Australasia, Together with Refinements in *Clasmatocolea* 435
ESSLINGER, T. L. Recent Literature on Lichens—144 457
ESSLINGER, T. L. & J. POELT. *Parmelia masonii*, a New Lichen Species (Asomycota) from the Himalayas 203
FIFE, A. J. Review 131
FRAHM, J.-P. A Survey of the *Campylopus* Flora of Hawaii 60
GOWAN, S. P. Reviews 127, 128
GRIFFIN, D., III. *Philonotis buckii* sp. nov. from Southern Mexico 427
HAMADA, N. Environmental Factors Affecting the Content of Usnic Acid in the Lichen Mycobiont of *Ramalina siliquosa* 57
HERRNSTADT, I., C. C. HEYN, & M. R. CROSBY. A Checklist of the Mosses of Israel 168
HORNE, P. & R. R. IRELAND. Moss and a Guanche Mummy: An Unusual Utilization 407
HYVÖNEN, J. *Tortella fragilis* (Pottiaceae) Reported for Southern South America 416
IMURA, S., J. M. GLIME, & Z. IWATSUKI. Propagula of *Aulacomnium heterostichum* in Japan 67
IRELAND, R. R. Chromosome Studies on Some Mosses of Ontario and Québec 30
IRELAND, R. R. Cuticular Papillae of *Atrichum crispum* 73
KARLIN, E. F. Notes on *Sphagnum* in Costa Rica: A Major Range Extension for *Sphagnum platyphyllum* 51

KIMMERER, R. W. Reproductive Ecology of *Tetraphis pellucida* I. Population Density and Reproductive Mode ... 255
KIMMERER, R. W. Reproductive Ecology of *Tetraphis pellucida* II. Differential Success of Sexual and Asexual Propagules ... 284
LAWREY, J. D. The Species-Area Curve as an Index of Disturbance in Saxicolous Lichen Communities ... 377
LLANO, G. A., I. MACKENZIE LAMB, D.Sc. (Elke Mackenzie) (1911–1990) ... 315
LOWEN, R. Review ... 345
MAGILL, R. E. Reviews ... 126, 129, 475
MAGILL, R. E. & B. ALLEN. Recent Literature on Mosses—147, 149 ... 115, 335
MANRIQUE, E. & F. LÓPEZ. Intrathalline Variation in Concentration of Lichen Substances in *Pseudevernia furfuracea* ... 207
MARTÍNEZ-SÁNCHEZ, J. J., R. M. ROS, & J. GUERRA. Briófitos Intersantes de Zonas Yesíferas del Sudesta Árido de España ... 16
MATTERI, C. M. & M. M. SCHIAVONE. La Vegetación Muscinal de Bahía Buen Suceso, Tierra del Fuego, Argentina ... 368
MATTSSON, J.-E. Protein Banding Patterns in Some American and European Species of *Cetraria* ... 261
MCCALL, K. K. & C. E. MARTIN. Chlorophyll Concentrations and Photosynthesis in Three Forest Understory Mosses in Northeastern Kansas ... 25
MCQUEEN, C. B. Niche Breadth and Overlap of Four Species of *Sphagnum* in Southern Ecuador 39
MERRILL, G. L. S. Bryophytes of Konza Prairie Research Natural Area, Kansas ... 383
MILLER, N. G. Review ... 129
MISHLER, B. D. & M. J. OLIVER. Gametophytic Phenology of *Tortula ruralis*, a Desiccation-Tolerant Moss, in the Organ Mountains of Southern New Mexico ... 143
MUELLER, D. M. J. Review ... 248
NEWBERRY, C. C. & L. L. ST. CLAIR. Additions to the Lichen Flora of Utah I ... 154
NICOLSON, D. H. Scientific Papers and Books by Mason E. Hale, Jr. ... 94
PRUSSIA, C. M. & K. T. KILLINGBECK. Concentrations of Ten Elements in Two Common Foliose Lichens: Leachability, Seasonality, and the Influence of Rock and Tree Bark Substrates ... 135
PURSELL, R. A. & B. ALLEN. Distributional Records of *Fissidens* in the Neotropics, with Description of *F. panamensis* sp. nov. ... 213
REDFEARN, P. L., JR. *Gymnostomiella* (Musci: Pottiaceae) in the Neotropics and Eastern Asia ... 392
REDFEARN, P. L., JR. & B. ALLEN. *Orthothecium hyalopiliferum* (Musci: Hypnaceae), a New Species from Sichuan, China ... 449
REESE, W. D. *Syrrhopodon armatissimus* sp. nov. from Madagascar, with Comments on Other Calymperaceae from the Madagascar Region ... 217
REESE, W. D. The Mosses of Grand Bahama Island ... 53
REESE, W. D. *Weissia* (*Hymenostomum*) *flavescens* New to the United States ... 179
REESE, W. D. Review ... 475
REESE, W. D., H. AKIYAMA, & C. C. TOWNSEND. *Syrrhopodon pulcher*, a New Species from Seram and Sulawesi ... 419
REESE, W. D. & W. R. BUCK. A Sample of *Calymperes* and *Syrrhopodon* from French Guiana ... 298
REESE, W. D. & W. R. BUCK. *Weissiodicranum insularum* gen. et sp. nov. ... 308
REESE, W. D. & P.-J. LIN. Two New Taxa of Calymperaceae from China ... 70
REESE, W. D., H. STREIMANN, & J. RUSSELL-SMITH. New Records of Australian Calymperaceae (Musci) ... 88
RUSHING, A. E. Review ... 476
RYAN, B. D. & T. H. NASH III. Lichen Flora of the Eastern Brook Lakes Watershed, Sierra Nevada Mountains, California ... 181
SALAZAR ALLEN, N., C. ARROCHA, & C. CHUNG. The Mosses of Barro Colorado Island, Panama ... 289
SHAW, J., E. S. JULES, & S. C. BEER. Effects of Metals on Growth, Morphology, and Reproduction of *Ceratodon purpureus* ... 270
SNIDER, J. A. Review ... 128
STOTLER, R. E. & B. CRANDALL-STOTLER. Recent Literature on Hepatics and Anthocerotes—124, 125, 126 ... 100, 221, 321
TALBOT, S. S., S. L. TALBOT, & J. W. THOMSON. Lichens of Attu Island, Alaska ... 421
THOMAS, R. J. & C. S. LOMBARD. Aphid Infestation and its Effects on Translocation in *Polytrichum commune* ... 1

THOMSON, J. W. Review 248
THOMSON, J. W. The Lichen Genus *Staurothele* in North America 351
THOR, G. The Placement of *Chiodecton sanguineum* (syn. *Chiodecton rubrocinctum*), and *Cryptothecia striata* sp. nov. 278
TIBELL, L. A New Species of *Stenocybe* from Western North America 413
VAN ROOY, J. The Genus *Rhabdoweisia* in Southern Africa: *R. crispata* New to Africa, and *R. fugax* 409
VISNADI, S. R. & B. ALLEN. A Revision of the Genus *Lindigia* (Musci: Meteoriaceae) in the Neotropics 5
VITT, D. H. Rediscovery of *Orthotrichum holzingeri*: Its Morphology and Habitat in Western North America 77
WYATT, R., D. M. LANE, & A. STONEBURNER. Chemosystematics of the Mniaceae. II. Flavonoids of *Plagiomnium* Section *Rosulata* 443
WYATT, R., D. M. LANE, & A. STONEBURNER. Chemosystematics of the Mniaceae. III. Sources of Intraspecific Variation in Flavonoids 452

Actual dates of issue of Volume 92
Number 1: 6 March 1991
Number 2: 11 June 1991
Number 3: 25 September 1991
Number 4: 19 December 1991